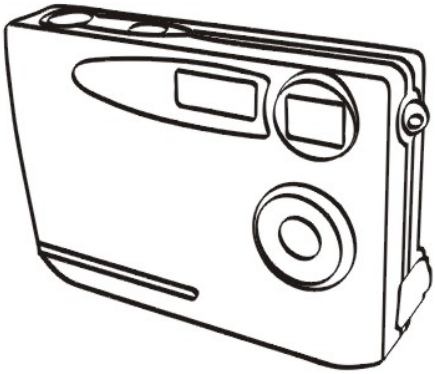
Digital Camera



USER MANUAL

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Welcome

Thank you for choosing the Camera to pursue your DSC. Whether you are creating memories of your friends and family or exploring the great outdoors to get the utmost satisfaction from your DSC, please take a moment to read through this manual. Its contents will send you on an educational journey into your camera's multiple capabilities.

1. Camera Precaution

Before using the camera, please ensure that you read and understand the safety precautions described below. Always ensure that the camera is operated correctly.

- Never operate the camera inside of an aircraft or anywhere else where operation of such devices is restricted. Improper use creates the risk of serious accident.
- Do not aim the camera directly into the sun or other intense light sources which could damage your eyesight.
- Do not try to open the case of the camera or attempt to modify this camera in any way. High-voltage internal components create the risk of electric shock when exposed. Maintenance and repairs should be carried out only by authorized service providers.
- Do not fire the flash too close to the eyes of animals or people, especially for young children. Eye damage may result. In particular, remain at least one meter away from infants when using flash.

- Keep the camera away from water and other liquids. Do not use the camera with wet hands. Never use the camera in the rain or snow. Moisture creates the danger of fire and electric shock.
- Keep the camera and its accessories out of the reach of children and animals to prevent accidents or damage to the camera.
- If you notice smoke or a strange odor coming from the camera, turn the power off immediately. Take the camera to the nearest authorized service center for repair. Never attempt to repair the camera on your own.
- Use only the recommended power accessories. Use of power sources not expressly recommended for this equipment may lead to overheating, distortion of the equipment, fire, electrical shock or other hazards.
- Never apply too much force when cleaning the surface of the lens. Doing so can scratch the lens surface and cause malfunction?
- The camera may become slightly warm during use. This does not indicate malfunction.
- If the exterior of the camera needs cleaning, wipe it with a soft, dry cloth.

FCC Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy. If not installed and used in accordance with the instruction, it may cause harmful interference to radio communication. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment on the off, the user is encouraged to try to correct the interference by one or more the following suggestion.

- Reorient or relocate the receiving antenna.
- Increase the distance between the equipment and the receiver.
- Connect the equipment to a different power outlet other than the one where the receiver is connected.
- Consult an experienced television or radio technician for help.

CAUTION

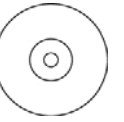
To comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules, this device must only be installed on computer equipment certified to comply with the Class B limits.

2. Preparation

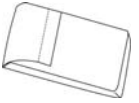
Standard Accessories

Camera

Manual



CD



Carry Bag

Strap

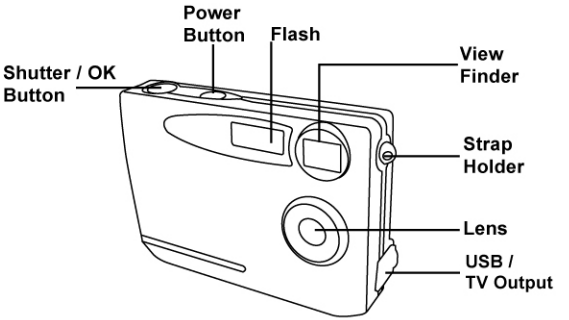
2xAAA Battery

USB cable

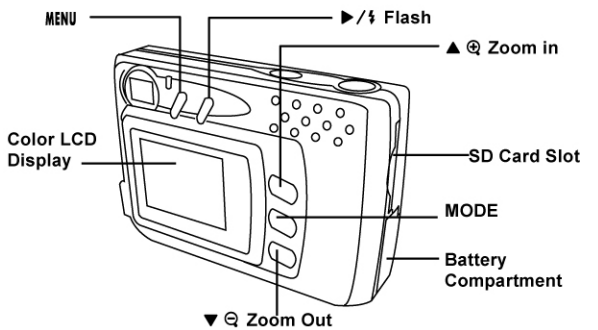
TV cable

Part Names

Front View

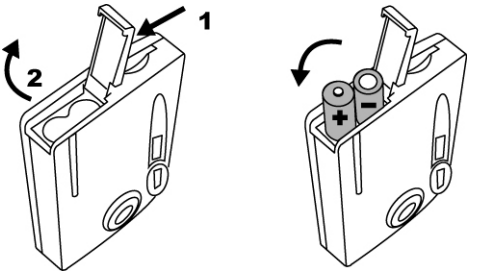


Back View

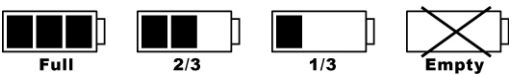


Battery Installation

1. Slide the battery compartment door.
2. Insert 2X AAA batteries in correct polarity (+ and -) as shown on the inside of the battery compartment.
3. Close the battery compartment door.



Battery Power Status

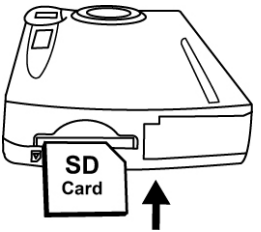


CAUTION

* Do not mix battery types (use only one battery type at a time) as this may cause or camera performance, fire, or explosion.
* Batteries must be places in the battery compartment with correct polarity.
* Batteries should be replaced when the battery indicator displays the “+” “-“ icon.
* To improve battery performance, replace both batteries at the same time.
* Remove the batteries if they will not be used for an extended period of time.

Loading SD Card

Insert SD card into memory card slot and push it all the way in. The LCD will show the SD card indicator when an SD card is in the slot.

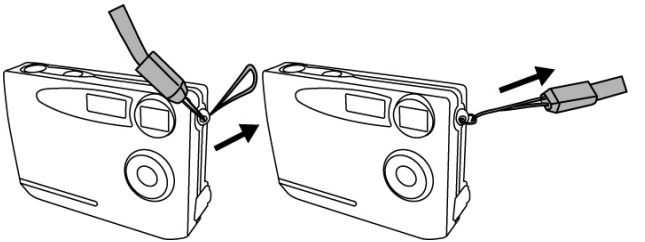


When the optional SD card is installed:

* All images/ movies by default will be automatically stored in SD card
* It may be necessary to format the SD card if the card has been used in devices other than your camera. To format, see Format Storage in page 27.
* “0” display at lower right of the LCD display when the SD card is full, or the SD is write-protected, or there is an error writing to the card. You cannot take picture. To take picture, download the pictures to your computer, or delete some unimportant pictures from the SD card (refer to page 23), or use a writable SD card.

Attaching the Strap

1. The small loop goes through the strap holder.
2. Then the small loop goes through one clutch of the loop again and pulls tightly.

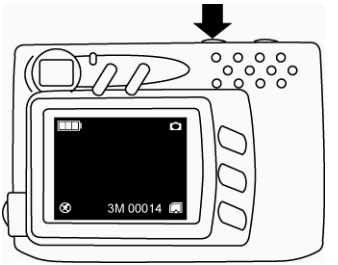


3. Quick Start

Powering the camera ON/ OFF

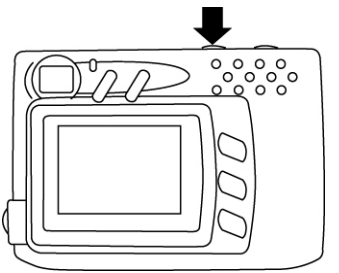
Power ON

1. Press the Power Button to turn on. The red LED light up indicate power is on.
2. When the LCD Monitor has been activated, the camera is ready to use.



Power OFF

1. Press the Power Button again to turn the camera off.
2. The camera also turns off automatically for power save reason. To set the Auto Power Off, please refer to page 28.

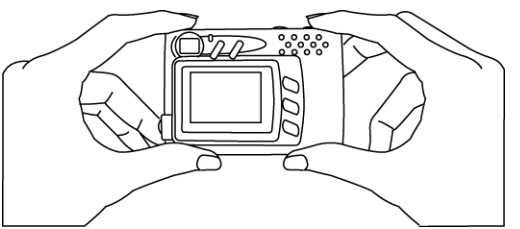


Taking Picture

Holding the camera correctly

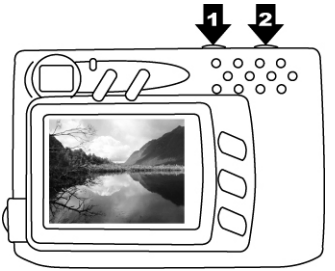
Due to the compact size and light weight of the camera, it is critical that you hold the camera securely in order to avoid “camera shake”. The camera is particularly sensitive to shake in low light environments. Taking a picture in low light requires a longer exposure time for the image to be captured and any movement during this time might cause a blurred image.

When taking a photo in low light the flash may trigger. Before this happens, try to avoid gripping the camera with your fingers placed on the front face of the camera. Instead, hold the camera on its edges so that the light of the flash does not reflect off your fingers and cause lens flare.



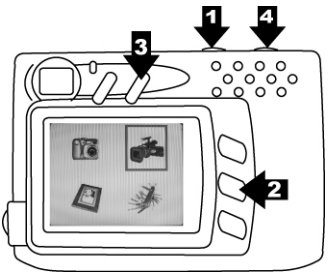
Capturing Still Images

1. Power on the camera.
2. Press the Shutter Button to take a picture.



Recording Video Clips

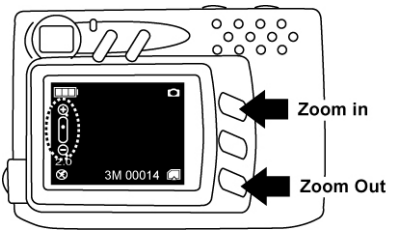
1. Power on the camera.
2. Press the Mode Button and press ▶ to select the Video Mode. Press OK button for confirmation.
3. Press the Shutter Button to start recording a movie.
4. Press the Shutter Button again to stop recording.



Basic Shooting Functions

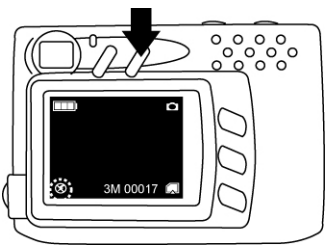
Using the Zoom

1. Under Still mode and Movie mode.
2. Use the LCD monitor to frame your subject.
3. Press the ▲ zoom in and ▼ zoom out to take a picture or record a movie clip.



Flash Setting

1. Under Still mode.
2. Press Flash/ ▶ button directly to change the flash mode- auto/ force on/ off.
   The red LED light would quick blinking until the flash is fully charged.



Auto Flash

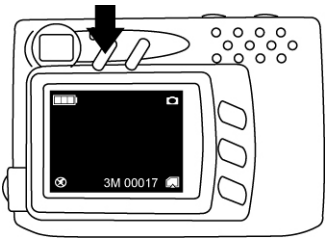
Force On

Flash Off

4. Advance Mode

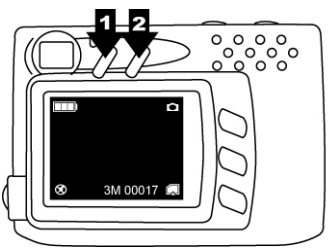
Still Mode

The Camera is default on Still Mode. To press Menu Button for modes setting, press Menu Button again to return the capture mode.



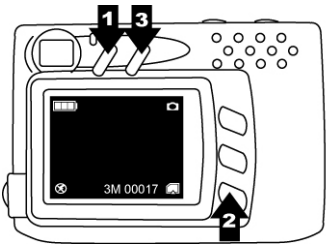
Picture Quality

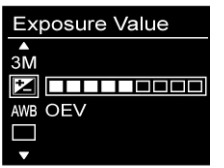
1. Under Still Mode.
2. Press Menu Button.
3. Press ▶ to select 1M (1280x960)/ 3M (2048x 1536)/ 12M (4032x3024 by interpolation) you want to change.
4. Press ▼ for next mode setting or press Menu Button to return the capture mode.



Exposure Value

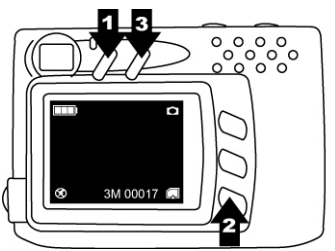
1. Under Still Mode.
2. Press Menu Button and press ▼ to select Exposure Value mode.
3. Press ▶ to adjust the exposure compensation from -2 to +2 in 0.5 increments.

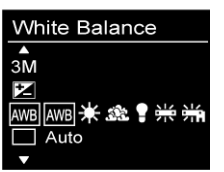




White Balance

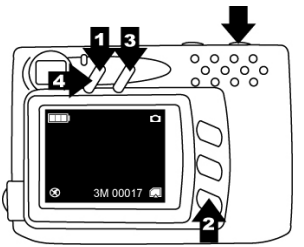
1. Under Still Mode.
2. Press Menu Button and press ▼ to select White Balance mode.
3. Press ▶ to select Auto/ Sunny/ Cloudy/ Tungsten/ Fluorescent1/ Fluourscent2 according to various lighting conditions.

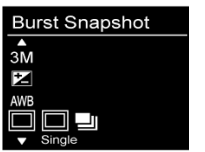




Burst Snapshot

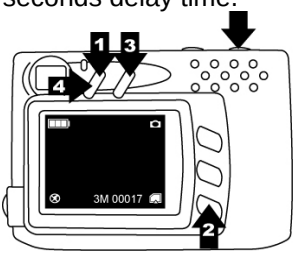
1. Under Still mode,
2. Press Menu Button and press ▼ to select Burst Snapshot mode.
3. Press ▶ to select Single/ Burst.
4. Press Menu Button to return the capture mode, and then press Shutter Button to capture 3 images continuously.

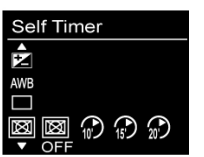




Self-timer

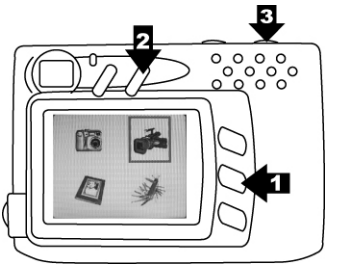
1. Under Still mode.
2. Press Menu Button and press ▼ to select Self-timer mode.
3. Press ▶ to select Off/ 10 sec/ 15 sec/ 20 sec.
4. Press Menu Button to return the capture mode, and then press Shutter Button to capture images by seconds delay time.





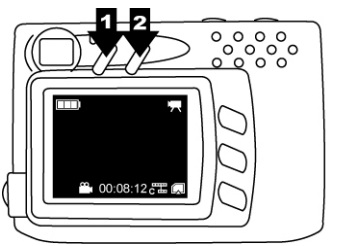
Video Mode

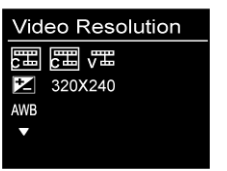
Press the Mode Button and press ▶ to select the **Video** Mode. Press Shutter/OK button for confirmation.
To press Menu Button for modes setting, press Menu Button again to return to recording mode.



Video Resolution

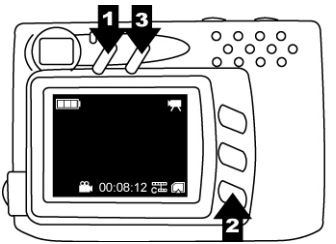
1. Under Video Mode.
2. Press Menu Button.
3. Press ▶ to select 320x240/ 640x480 movie format you want to change.
4. Press ▼ for next mode setting or press Menu Button to return the capture mode.

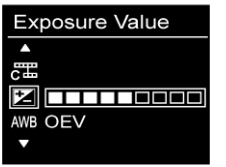




Exposure Value

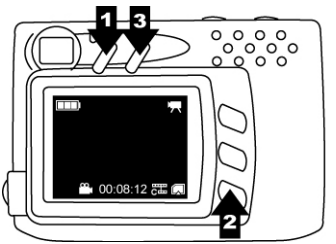
1. Under Video Mode.
2. Press Menu Button and press ▼ to select Exposure Value mode.
3. Press ▶ to adjust the exposure compensation from -2 to +2 in 0.5 increments.

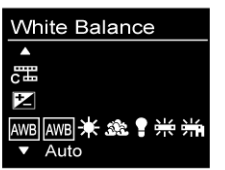




White Balance

1. Under Video Mode
2. Press Menu Button and press ▼ to select White Balance mode.
3. Press ▶ to select Auto/ Sunny/ Cloudy/ Tungsten/ Fluorescent1/ Fluourscent2 according to various lighting conditions.

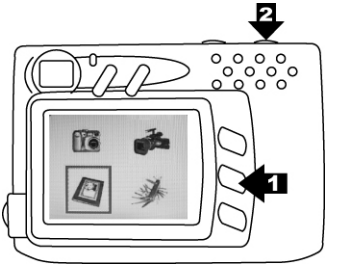




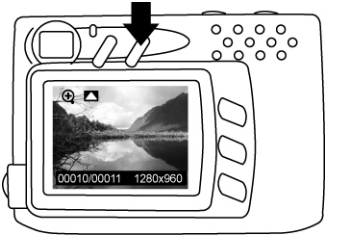
Playback Mode

Pictures/ Video Clips Playback

1. Press the Mode Button and select **Playback** Mode.
2. Press Shutter/OK button for confirmation.

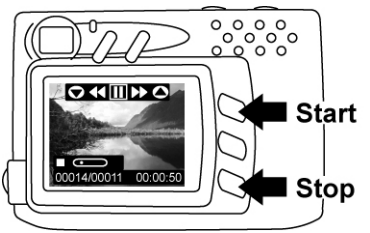


3. Press ▶ to select the pictures/ video clips you want to review.



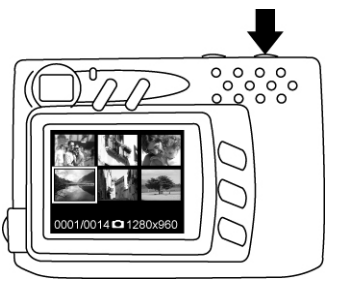
Single Video Clip Playback

1. Press ▲ to playback, to press twice is quick playback.
2. Press ▼ to stop, to press twice is backward.



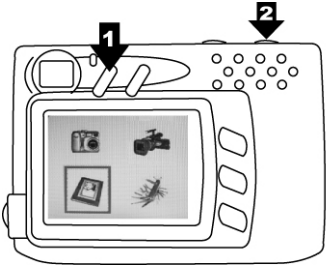
Thumbnail

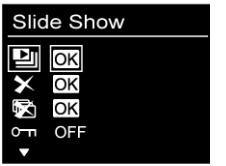
1. Press Shutter/OK Button to enter Thumbnail to show 6 pictures/ video clips at the same time on TFT display.
2. To press Shutter/OK Button to return the original picture/ video clip playback status.



Slide Show

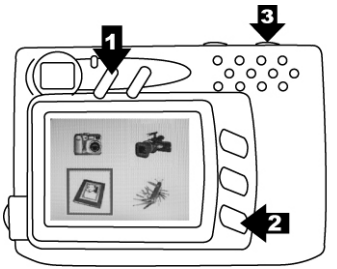
1. Under Playback mode.
2. Press Menu Button.
3. Press Shutter/OK button to start slide show, press Shutter/OK button again to stop.

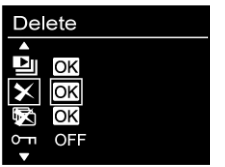




Delete Current Picture or Video Clip

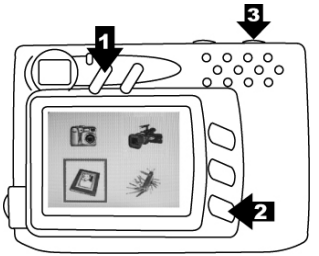
1. Under Playback mode.
2. Press Menu Button and press ▼ to select Delete mode.
3. Press Shutter/OK button to delete current picture or video clip.
4. Press Shutter/OK button again for confirmation, press Menu button to exit.

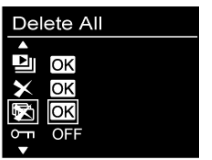




Delete All

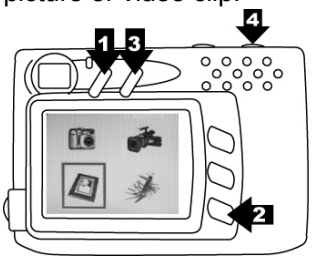
1. Under Playback mode.
2. Press Menu Button and press ▼ to select Delete All mode.
3. Press Shutter/OK button to delete all pictures and video clips.
4. Press Shutter/OK button again for confirmation, press Menu button to exit.

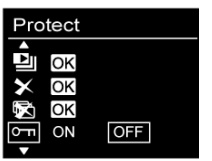




Protect

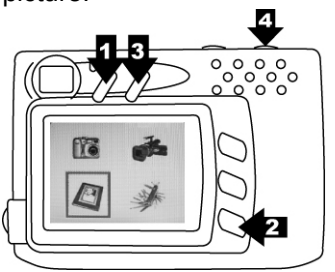
1. Under Playback mode.
2. Press Menu Button and press ▼ to select Protect mode.
3. Press ▶ to select ON to protect current picture or video clip.
4. The Protect symbol will be shown on the top right of picture or video clip.

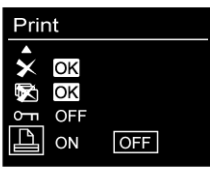




Print

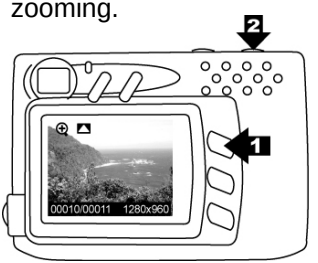
1. Under Playback mode.
2. Press Menu Button and press ▼ to select Print mode.
3. Press ▶ to select ON to mark current picture to be printed.
4. The Print symbol will be shown on the top right of picture.

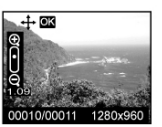




Playback Zooming

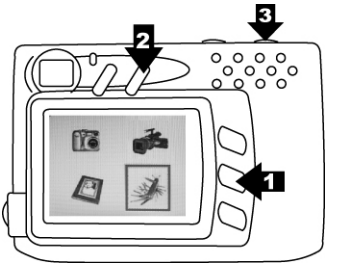
1. Under Picture Playback mode.
2. Press ▲ to pan the center of the picture to view.
3. Press OK Button to fix the zoom frame. Press▲ ▼ to move to a specific area you want to see.
4. Press OK Button again to return the picture playback zooming.





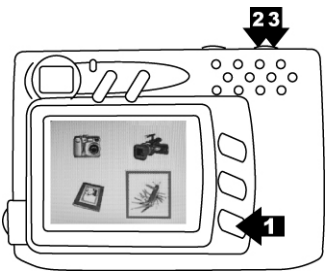
5. Settings

Press the Mode Button and press ▶ to select **Setting** Mode. Press Shutter/OK button for confirmation. To press the Mode Button again to return the Mode status.



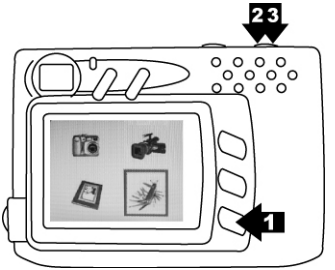
Language

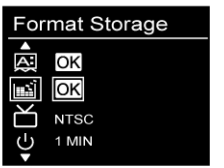
1. Under Setting Mode.
2. Press Shutter/OK Button.
3. Press ▼ to select English/ French/ German/ Spanish/ Dutch/ Italian/ Chinese languages you want to change, and press Shutter/OK Button to set, press Menu Button for exit.



Format Storage

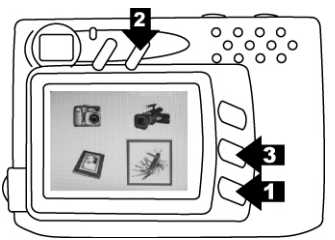
1. Under Setting Mode.
2. Press ▼ to select Format Storage Mode.
3. Press Shutter/OK Button to format memory card, press Menu Button for exit.

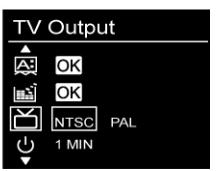




TV Output

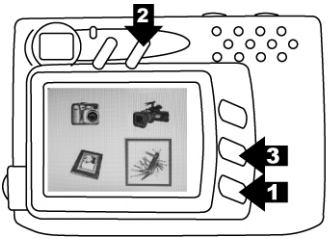
1. Under Setting Mode.
2. Press ▼ to select TV output Mode.
3. Press ▶ to choose the NTSC/ PAL want to change, and then press Mode Button to return the Mode status.

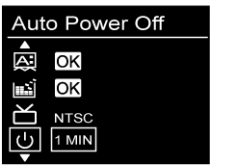




Auto Power Off

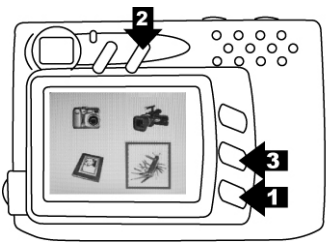
1. Under Setting Mode.
2. Press ▼ to select Auto Power Off Mode.
3. Press ▶ to choose the 30 sec/ 1min/ 3min/ 5min you want to change, and then press Mode Button to return the Mode status.

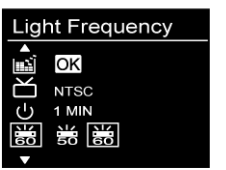




Light Frequency

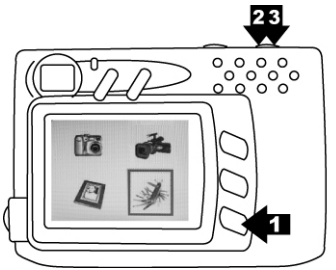
1. Under Setting Mode.
2. Press ▼ to select Light Freq. mode.
3. Press ▶ to choose the correct frequency- 50Hz/ 60Hz in your territory when you take picture indoors, and then press Mode Button to return the Mode status.





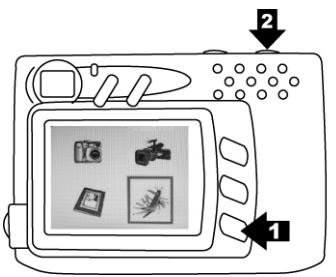
Default Setting

1. Under Setting Mode.
2. Press ▼ to select Default Setting Mode.
3. Press Shutter/OK Button to restore default system setting, press Menu Button for exit.



System Information

1. Under Setting Mode.
2. Press ▼ to select System Info. Mode.
3. Press Shutter/OK Button to show firmware version for this camera, press Shutter/OK again to return setting mode.



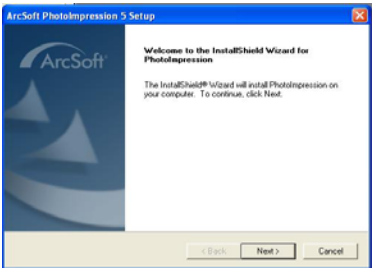
6. Making Connection

Install PhotoImpression

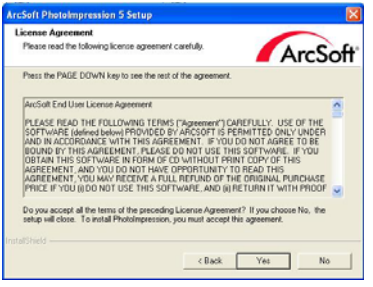
1. Insert the installation CD into your PC's CD-ROM drive.
2. The introduction screen will appear automatically.
3. Click "ArcSoft PhotoImpression"

4. Choose setup language

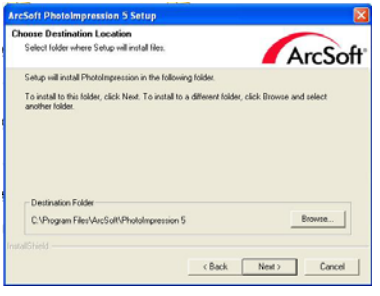
5. Click “NEXT”


ArcSoft PhotoImpression 5 Setup
ArcSoft
Welcome to the InstallShield Wizard for PhotoImpression
The InstallShield® Wizard will install PhotoImpression on your computer. To continue, click Next.
< Back
Next >
Cancel

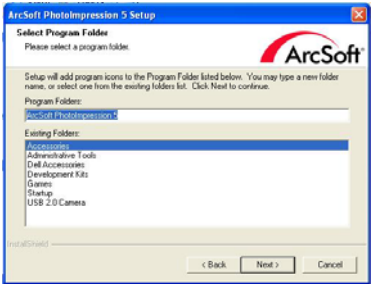
6. Click ”YES”


ArcSoft PhotoImpression 5 Setup
License Agreement
Please read the following license agreement carefully.
ArcSoft
Press the PAGE DOWN key to see the rest of the agreement.
ArcSoft End User License Agreement
PLEASE READ THE FOLLOWING TERMS ("Agreement") CAREFULLY. USE OF THE SOFTWARE (defined below) PROVIDED BY ARCSOFT IS PERMITTED ONLY UNDER AND IN ACCORDANCE WITH THIS AGREEMENT. IF YOU DO NOT AGREE TO BE BOUND BY THIS AGREEMENT, PLEASE DO NOT USE THIS SOFTWARE. IF YOU OBTAIN THIS SOFTWARE IN FORM OF CD WITHOUT PRINT COPY OF THIS AGREEMENT, AND YOU DO NOT HAVE OPPORTUNITY TO READ THIS AGREEMENT, YOU MAY RECEIVE A FULL REFUND OF THE ORIGINAL PURCHASE PRICE IF YOU (i) DO NOT USE THIS SOFTWARE, AND (ii) RETURN IT WITH PROOF
Do you accept all the terms of the preceding License Agreement? If you choose No, the setup will close. To install PhotoImpression, you must accept this agreement.
InstallShield
< Back
Yes
No

7. Click “NEXT”


ArcSoft PhotoImpression 5 Setup
Choose Destination Location
Select folder where Setup will install files.
ArcSoft
Setup will install PhotoImpression in the following folder.
To install to this folder, click Next. To install to a different folder, click Browse and select another folder.
Destination Folder
C:\Program Files\ArcSoft\PhotoImpression 5
Browse...
InstallShield
< Back
Next >
Cancel

8. Click “NEXT”



9. Click “Finish”

ArcSoft PhotoImpression 5 Setup
ArcSoft
InstallShield Wizard Complete
Microsoft DirectX 9 or later is required to use PhotoImpression. PhotoImpression can automatically launch the DirectX 9 installation.
Install DirectX
Please be sure to restart the system before running the software for the first time.
< Back
Finish
Cancel

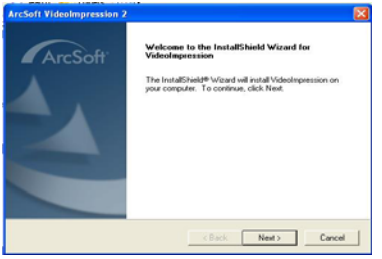
Note: To find out more about PhotoImpression5.0 or how to use it, consult online help by clicking ” **?** “ icon on the top menu bar or website www.acrosoft.com

Install VideoImpression

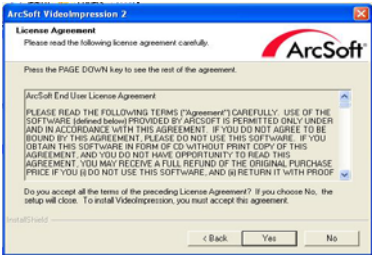
1. Insert the installation CD into your PC's CD-ROM drive.
2. The introduction screen will appear automatically.
3. Click "ArcSoft VideoImpression"

4. Choose setup language

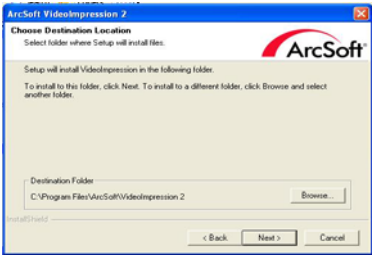
5. Click “NEXT”


ArcSoft VideoImpression 2
ArcSoft
Welcome to the InstallShield Wizard for VideoImpression
The InstallShield® Wizard will install VideoImpression on your computer. To continue, click Next.
< Back
Next >
Cancel

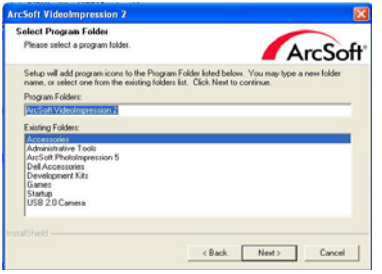
6. Click ”YES”


ArcSoft VideoImpression 2
License Agreement
Please read the following license agreement carefully.
ArcSoft
Press the PAGE DOWN key to see the rest of the agreement.
ArcSoft End User License Agreement
PLEASE READ THE FOLLOWING TERMS ("Agreement") CAREFULLY. USE OF THE SOFTWARE (defined below) PROVIDED BY ARCSOFT IS PERMITTED ONLY UNDER AND IN ACCORDANCE WITH THIS AGREEMENT. IF YOU DO NOT AGREE TO BE BOUND BY THIS AGREEMENT, PLEASE DO NOT USE THIS SOFTWARE. IF YOU OBTAIN THIS SOFTWARE IN FORM OF CD WITHOUT PRINT COPY OF THIS AGREEMENT, AND YOU DO NOT HAVE OPPORTUNITY TO READ THIS AGREEMENT, YOU MAY RECEIVE A FULL REFUND OF THE ORIGINAL PURCHASE PRICE IF YOU (i) DO NOT USE THIS SOFTWARE, AND (ii) RETURN IT WITH PROOF
Do you accept all the terms of the preceding License Agreement? If you choose No, the setup will close. To install VideoImpression, you must accept this agreement.
InstallShield
< Back
Yes
No

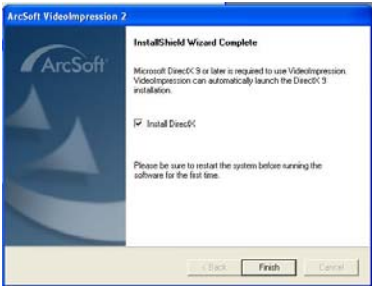
7. Click “NEXT”


ArcSoft VideoImpression 2
Choose Destination Location
Select folder where Setup will install files.
ArcSoft
Setup will install VideoImpression in the following folder.
To install to this folder, click Next. To install to a different folder, click Browse and select another folder.
Destination Folder
C:\Program Files\ArcSoft\VideoImpression 2
Browse...
InstallShield
< Back
Next >
Cancel

8. Click “NEXT”



9. Click “Finish”

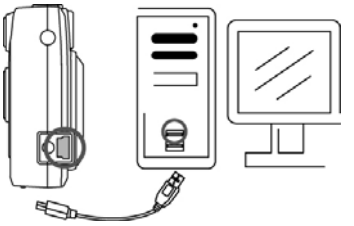

ArcSoft VideoImpression 2
ArcSoft
InstallShield Wizard Complete
Microsoft DirectX 9 or later is required to use VideoImpression. VideoImpression can automatically launch the DirectX 9 installation.
Install DirectX
Please be sure to restart the system before running the software for the first time.
< Back
Finish
Cancel

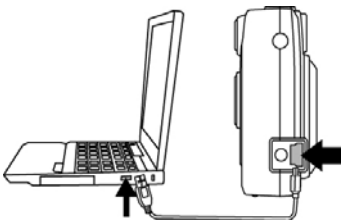
Note: To find out more about VideoImprssion or how to use it,
consult online help by clicking ” **?** “ icon on the top menu bar or website www.acrosoft.com

Connecting to PC

Window 2000/ XP/ Vista- No Driver Required:

1. Power on the camera first.
2. Plug the USB cable to the camera and computer or notebook properly.



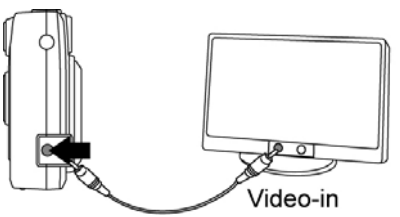


Download Pictures, Videos

1. Power on the camera first and plug in USB cable
2. **For Windows 2000:**
   Double click “My Computer” icon on the Windows Desktop.
   For Windows XP/ Vista:
   Select “Open Folder view files using Windows Explorer” and click “OK”
3. Double click on the **DCIM folder** to open.
4. Double click on the **100CRESI** folder for pictures and movies.
5. You can copy the pictures and movies to your designated folder or album.

Connecting to TV for review

1. Before you connect to TV, please make sure the correct video signal standard (NTSC or PAL) first.
2. Plug the provided TV cable (the black end) into the AV port of camera and connect the yellow end into the video-in port of your TV.
3. Turn on the camera and TV.



7. Appendix

Specifications	
Image Sensor	CMOS 2048 x 1536 pixels
Built-in Memory	None
External Memory	SD card memory slot
Lens Specification	F2.8, f=6.3mm
Lens Focus	Fixed, 1.5m (4.9 ft) to infinity
Flash Strobe	Auto, Force on, Flash off
Flash Distance	Approx. 1.3m ~ 2.8m
White Balance	Auto, Sunny, Cloudy, Tungsten, Fluorescent
Exposure	Auto, ±2.0 EV, 0.5 EV steps
Still Image Res.	12M(4032x3024) pixels by interpolation 3M (2048x1536) pixels 1M (1280x960) pixels
Video Mode	640x480, 320x240
Compression	Still- JPEG/ Movie- AVI
Zoom	4X digital zoom
Display	1.5” TFT color display
PC Interface	USB 1.1
O/S	Window 2000/ XP/ Vista
Power	2X AAA batteries
Dimension	88 x 60x 20mm
Weight	80 g
Specifications are subject to change without prior notice.	

Computer System Requirement

- Windows 2000/ XP/ Vista
- 266 MHz Pentium or better
- 32MB RAM
- 200MB available Hard Drive space
- CD-ROM or DVD Drive
- Color monitor
- Available USB port

Icons & Indicators

	SD card Indicator		Shaking Hand
	Battery Full		Auto White Balance
	Battery 2/3		Sunny
	Battery 1/3		Cloudy
	Battery Empty		Tungsten
	Still Mode		Fluorescent
	Video Mode		Delete
	Still Resolution		Delete All
	Video Resolution		Burst
	Auto Flash		Protect
	Force On		Print
	Flash Off		Slide Show
	Exposure		Zoom In
	Self-timer		Zoom Out

Standard number of available pictures/ recording time reference table

The number of available pictures/ recording time depending on the subjects photographed.

Still Image

RES. Size	# of Available Shots				
	SD card				
	16 MB	256 MB	512 MB	1G	2G
1M	40	726	1464	2890	5783
3M	15	283	571	1128	2258
12M	4	73	147	293	590

Movie

RES. Size	# of Available Recording Time				
	SD card				
	16 MB	256 MB	512 MB	1G	2G
320x240	00:01:11	00:20:47	00:41:52	01:22:35	02:45:15
640x480	00:00:35	00:10:23	00:20:56	00:41:17	01:22:37